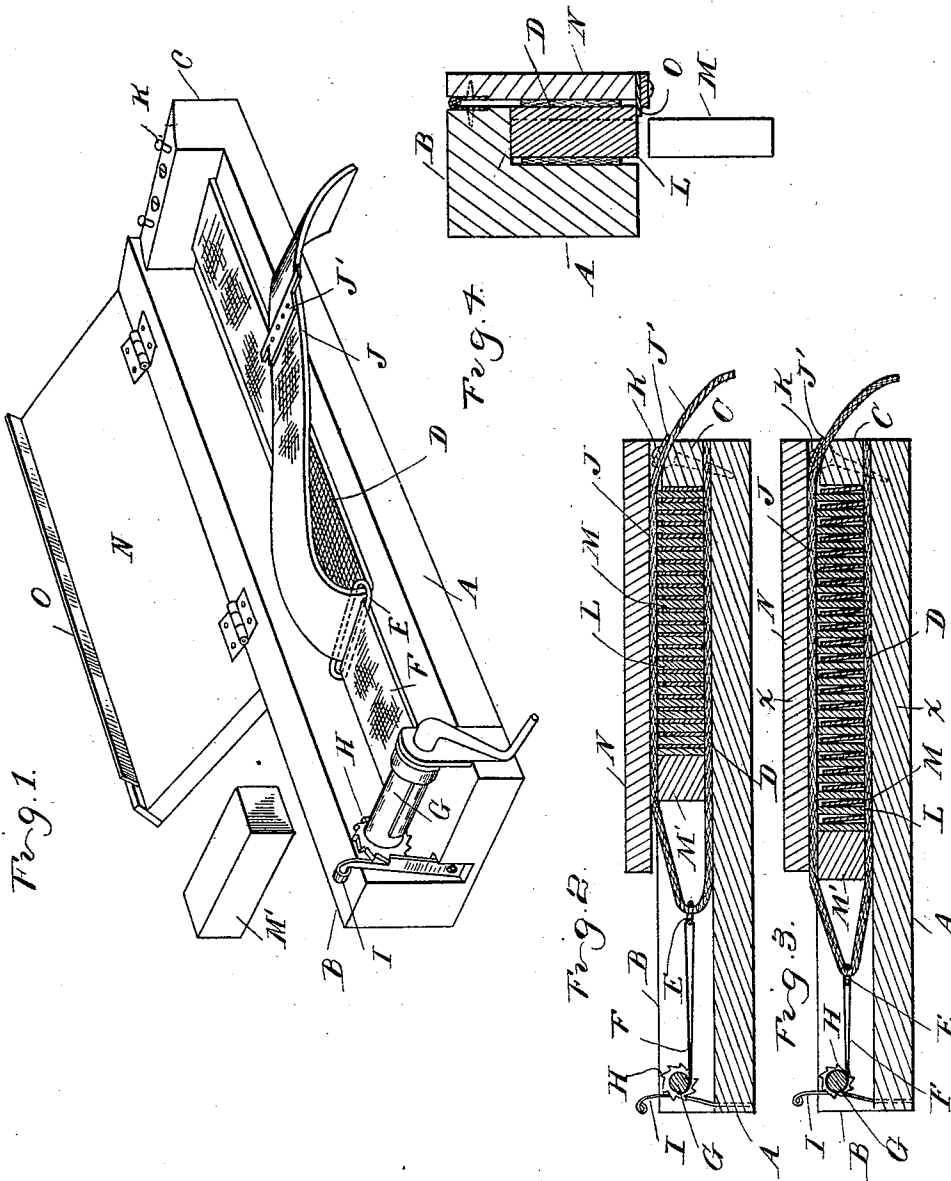


(No Model.)

W. WEATHERBY.  
DEVICE FOR REMOVING LEADS FROM TYPE.

No. 520,465.

Patented May 29, 1894.



Witnesses  
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# UNITED STATES PATENT OFFICE.

WILBERT WEATHERBY, OF DETROIT, MICHIGAN.

## DEVICE FOR REMOVING LEADS FROM TYPE.

SPECIFICATION forming part of Letters Patent No. 520,465, dated May 29, 1894.

Application filed November 4, 1893. Serial No. 490,017. (No model.)

*To all whom it may concern:*

Be it known that I, WILBERT WEATHERBY, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Devices for Removing Leads from Type, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention consists in the peculiar construction of a device intended to remove leads from set type, and comprises a supporting base upon which a column of leaded set type is adapted to be supported, mechanism for lengthening the column by separating the lines of type, so that the leads are loosened and a device for holding the type above the leads so that the leads may be withdrawn entirely and without affecting the type.

The invention further consists in the peculiar construction, arrangement and combination of the various parts as more fully hereinafter described.

In the drawings, Figure 1 is a perspective view of my improved device. Figs. 2 and 3 are central, longitudinal sections thereon, showing the device as in use and in different stages of the operation. Fig. 4 is a cross section on line *x x* of Fig. 3, showing the device as in use when the leads are being removed.

A is the block or bed plate, of suitable width to support a column of set type. This is preferably provided with a side B and a raised end C, the side opposite B being open.

D is an elastic band secured at one end to the end C of the bed and lying along the top of the plate A. It passes through an eye E at the forward end of a belt F which is secured to a crank shaft G provided with a ratchet H at one end, in which the spring pawl I is adapted to engage. The end section J of the belt D is provided with suitable securing devices such as the plate J', by means of which it may be secured to the end C of the bed plate, by engaging with the pins K thereon.

L represents lines of set type and M the leads between the same, which, as is usual, are slightly shorter than the type.

I have shown a device intended for use in connection with the well known typograph or

linotype which sets up the type in short lines the width of a column, and while my device is best adapted for use with type set in such a machine it may be used with the ordinary type if desired. The column from which the leads are to be removed is placed upon the section B of the elastic band, the other section thereof being secured upon the top, as shown in Figs. 2 and 3, and I preferably insert a block M' at the end of the column to prevent the type from falling down.

N is a top plate preferably hinged to the top of the side B and adapted to bear upon the upper face of the type. This plate is provided at its forward edge with the depending flange O adapted to engage across the front edge of the type and above the top of the leads.

The column being in the position described and the plate N turned to rest upon the upper section J of the belt, with slight pressure, the operator turns the crank shaft G which elongates the sections D and J of the elastic belt, which will separate the lines of the type from each other and from the leads as shown in Fig. 3.

To remove the leads the operator holding down the plate N turns the forward edge of the device downward and the leads will fall out as shown in Fig. 4. Now, by releasing the spring pawl I the band D will return to its normal size, the top plate may be removed and the type taken out without the leads. The advantage of this over the ordinary hand methods will be readily appreciated for the entire leaded portion of a newspaper can be freed from its leads in the space of a few minutes.

What I claim as my invention is—

1. The combination of a bed, adapted to receive a column of set type, of mechanism for spreading the lines and a holder for the type above the top of the leads, substantially as described.

2. The combination of a bed adapted to receive a column of leaded linotype and open on one end, an elastic stretcher for lengthening the column by separating the lines, and a holder for the type above the top of the leads on the open side, substantially as described.

3. The combination of the bed adapted to receive a column of leaded, set type, an elastic stretcher adapted to rest on top and bottom of the type, means for elongating the  
5 "stretcher" and means for holding the type above the leads, substantially as described.

4. The combination of the bed, having an end and a side bar, of a plate hinged to the side and having a flange at its free end, of an  
10 elastic loop, adapted to be secured above and

below a column of type on the bed, and means for stretching the loop, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

WILBERT WEATHERBY.

Witnesses:

M. B. O'DOHERTY,  
O. F. BARTHEL.